

TRANSPORTATION ADVISORY COMMITTEE.

Arlington Planning Department, 730 Mass Ave, Arlington MA

Date: April 10, 2024.

To: Select Board.

From: Transportation Advisory Committee.

Subject: Recommended Changes for the Wachusett – Appleton Intersection

Memorandum

1 Background

A question was raised by a resident asking that the town investigate traffic behavior at this intersection. Specifically to investigate traffic rolling through the Stop signs.

A prior planning activity resulted in a proposal for this intersection on which no action was taken. As a part of this activity that proposal was examined and rejected as not sufficiently addressing the core issue.

2 Summary Observations

- Intersection presents drivers with a huge expanse of asphalt
- 6 feeder legs, five with stop signs and one does not (Appleton Eastbound)
- Drivers routinely slow but do not stop, preferring to roll out into the intersection
- When a second car is present, drivers stop
- When a pedestrian is present, drivers stop
- When more that 2 cars are at the intersection, drivers cautiously roll into the intersection – feeling out who has the right of way
- Once traffic proceeds, it uses the expanse of pavement without clear lanes
- Traffic behaves reasonably from a speed point of view
- Very few accidents most recent in 2017 and only 4 in the last 20 years

3 Recommendations

- Add a Stop Sign to Appleton Eastbound
- Add ALL WAY Plaques per MUTCD section 2B.05 (R1-3P) under the Stop Signs at all approaches
- Add a Stop Ahead sign before the new Stop Sign
- Add a stop line painted in the road before the new Stop Sign

A queuing analysis was performed on the proposed Stop Sign on Appleton Street eastbound. The analysis found that there was no significant queuing by adding the sign.

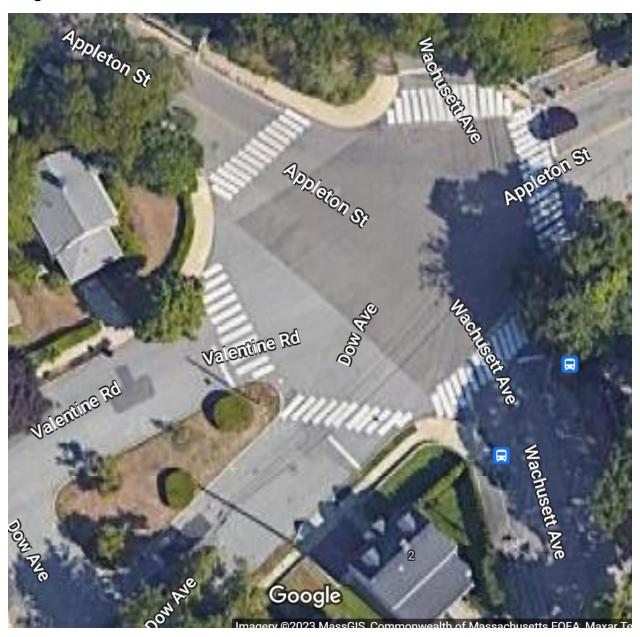
Two proposals were made (square off the intersection or install a rotary) but were tabled due to the low traffic volumes and high costs associated with these.

Request that DPW review options the next time this area comes up on the regular schedule.

04/10/24 Final

Detailed Observations: Four one hour sessions were spent observing this intersection on foot as well as multiple drives back and forth through each leg of the intersection.

Images:



Detailed Observations:

Walking observation dates and times:

- 8/1/22 10:00 to 10:30 AM
- 8/2/22 7:30 to 8:15 AM
- 8/3/22 4:30 to 5:15 PM
- 3/3/23 1:00 to 2:00 PM

Walking observations:

- Huge expanse of asphalt with good visibility except as noted below for Appleton eastbound
- Traffic was light during morning and noon observation periods and moderate/light in the afternoon rush
- Should revisit after school starts in the fall
- Very few pedestrians other than myself (10 or fewer)
- No children
- The only serious safety issue is related to Appleton coming eastbound there is no stop sign there. Due to the layout of the intersection and plantings traffic is entering at speed and cannot see the pedestrians just entering the crosswalk or the traffic coming up Valentine after the stop sign
- Traffic flows well and self regulates well
- As volume increases, there is more hesitancy on the part of drivers trying to look at 5 different directions at the same time!
- Single cars entering the intersection >90% of the time do not come to a complete stop
- Come through slowly with a rolling stop to see if all clear then go
- Can easily stop as needed see below
- More than one car or a car and pedestrian at the intersection >90% come to a complete stop to self-regulate auto and / or pedestrian flow
- The evening rush time is a little more chaotic
- People pull out and stop past the stop line to get better visibility and then it is not clear who has right of way
- People entering from Appleton eastbound stop even though they do not have to

Driving observations (multiple drives):

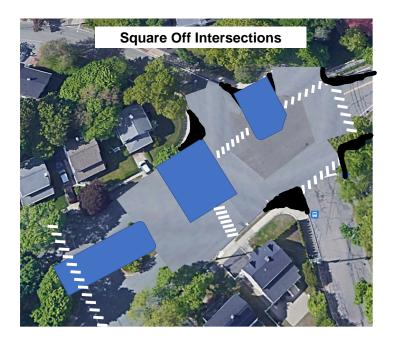
- Drove through the intersection entering and exiting through every one of the six legs two different times: mid-morning and afternoon rush
- Overall traffic flows relatively smoothly and self regulates
- Visibility is good even for Appleton eastbound
- As noted above is that you have to look around a large area and assess who is moving or not before proceeding

04/10/24 Final

Potential Solutions:

Roundabout:





Attachments Raw Data Turning Count Reports

The following files which are posted along with this memo provide the raw data for the turning counts analysis:

- 2024 04 10 Wachusett Appleton Memo 1.pdf
- 2024 04 10 Wachusett Appleton Memo Arlington AM_AWS.pdf
- 2024 04 10 Wachusett Appleton Memo Arlington AM_TWS.pdf
- 2024 04 10 Wachusett Appleton Memo Arlington PM_AWS.pdf
 2024 04 10 Wachusett Appleton Memo Arlington PM_TWS.pdf

978-664-2565

N/S Street : Appleton S t/ Wachusett Ave E/W Street : Appleton St / Valentine Rd City/State : Arlington, MA Weather : Cloudy

File Name : 24228701 Site Code : 24228701 Start Date : 11/9/2023

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07:15 AM	1	1	0	0	0	0	5	8	0	0	0	10	3	59	0	0	0	3	0	0	0	1	0	22	1	0	1	13	0	0	128
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978-664-2565

N/S Street: Appleton S t/ Wachusett Ave E/W Street: Appleton St / Valentine Rd

Wachusett Ave

Appleton St

City/State : Arlington, MA Weather : Cloudy File Name : 24228701 Site Code : 24228701 Start Date : 11/9/2023

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Valentine Rd

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05:00 PM	1	1	0	1	0	3	7	10	0	0	0	3	0	24	0	1	0	2	3	0	0	0	8	49	1	0	2	7	1	0	124
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Apprch %	12.2	56.1	7.3	4.9	19.5	2.6	40.1	54.8	1.3	1.3	1.7	13.4	5.6	79	0.3	4.8	4.1	64.1	20	6.9	0.3	1.8	9.7	85.3	2.9	0.5	14	81	4.5	0	
Total %	0.2	1.1	0.1	0.1	0.4	0.4	6	8.2	0.2	0.2	0.6	4.9	2.1	29	0.1	0.3	0.3	4.5	1.4	0.5	0.1	0.5	2.9	25.4	0.9	0	1.3	7.8	0.4	0	
Cars	5	23	3	2	8	8	124	163	4	4	13	101	42	597	2	6	6	85	28	10	2	11	60	517	18	1	28	162	9	0	2042
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Cars	2	6	1	0	3	12	0	41	89	3	1	134	5	33	14	215	1	268	2	4	53	8	4	71	1	3	5	90	8	107	1	2	40	7	0	50	642
% Cars	100	100	100	0	100	100	0	100	96.7	100	100	97.8	100	100	100	99.1	100	99.3	66.7	100	96.4	100	100	95.9	100	100	100	96.8	100	97.3	100	100	100	100	0	100	98.3
Trucks	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	2	0	2	1	0	2	0	0	3	0	0	0	3	0	3	0	0	0	0	0	0	11
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Appleton St

Wachusett Ave

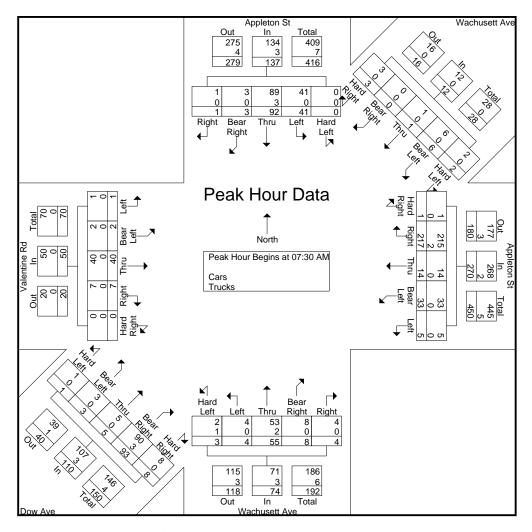
Dow Ave

978-664-2565

N/S Street: Appleton S t/ Wachusett Ave E/W Street: Appleton St / Valentine Rd

City/State : Arlington, MA Weather : Cloudy File Name : 24228701 Site Code : 24228701 Start Date : 11/9/2023

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Peak Hour Analysis From 07:00 AM to 09:45 AM - Peak 1 of 1 Peak Hour for Each Approach Begins at:

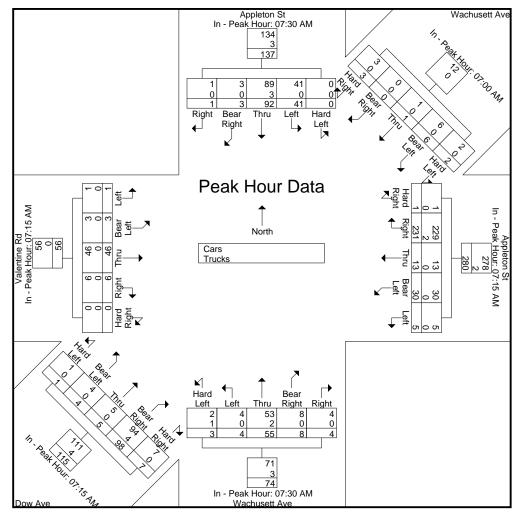
<u>reakin</u>	oui i	O1 L	uon	7,121	noa		og.,	io at	•										_																	
	07:00 A	MA					07:30	AM					07:15	MA					07:30	MA					07:15	AM					07:15 A	M				
+0 mins.	0	2	0	0	1	3	0	9	11	0	1	21	0	10	3	59	0	72	0	0	6	1	1	8	0	1	0	22	1	24	0	1	13	0	0	14
+15 mins.	1	1	0	0	0	2	0	10	39	3	0	52	0	7	4	66	0	77	1	3	17	3	1	25	0	0	0	28	0	28	0	1	10	0	0	11
+30 mins.	1	0	0	0	0	1	0	9	21	0	0	30	4	7	4	54	0	69	1	0	19	2	2	24	0	2	1	16	1	20	0	0	8	4	0	12
+45 <u>mins.</u>	0	3	1	0	2	6	0	13	21	0	0	34	1	6	2	52	1	62	1	1	13	2	0	17	1	1	4	32	5	43	1	1	15	2	0	19
Total Volume	2	6	1	0	3	12	0	41	92	3	1	137	5	30	13	231	1	280	3	4	55	8	4	74	1	4	5	98	7	115	1	3	46	6	0	56
% App. Total	16.7	50	8.3	0	25		0	29.9	67.2	2.2	0.7		1.8	10.7	4.6	82.5	0.4		4.1	5.4	74.3	10.8	5.4		0.9	3.5	4.3	85.2	6.1		1.8	5.4	82.1	10.7	0	
PHF	.500	.500	.250	.000	.375	.500	.000	.788	.590	.250	.250	.659	.313	.750	.813	.875	.250	.909	.750	.333	.724	.667	.500	.740	.250	.500	.313	.766	.350	.669	.250	.750	.767	.375	.000	.737
Cars	2	6	1	0	3	12	0	4	8 9	3	1	134	5	3	1 3	22 9	1	278	2	4	5 3	8	4	71	1	4	5	9 4	7	111	1	3	4 6	6	0	56
% Cars	10	10 0	10 0	0	10 0	100	0	10 0	96. 7	10 0	10 0	97.8	10 0	10 0	10 0	99. 1	10 0	99.3	66. 7	10 0	96. 4	10 0	10 0	95.9	10 0	10 0	10 0	95. 9	10 0	96.5	10 0	10 0	10 0	10 0	0	100
Trucks	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	2	0	2	1	0	2	0	0	3	0	0	0	4	0	4	0	0	0	0	0	0
% Trucks	0	0	0	0	0	0	0	0	3. 3	0	0	2.2	0	0	0	0. 9	0	0.7	33. 3	0	3. 6	0	0	4.1	0	0	0	4. 1	0	3.5	0	0	0	0	0	0

978-664-2565

N/S Street : Appleton S t/ Wachusett Ave E/W Street : Appleton St / Valentine Rd

City/State : Arlington, MA Weather : Cloudy File Name : 24228701 Site Code : 24228701 Start Date : 11/9/2023

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Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1 Peak Hour for Entire Intersection Begins at 10:00 AM

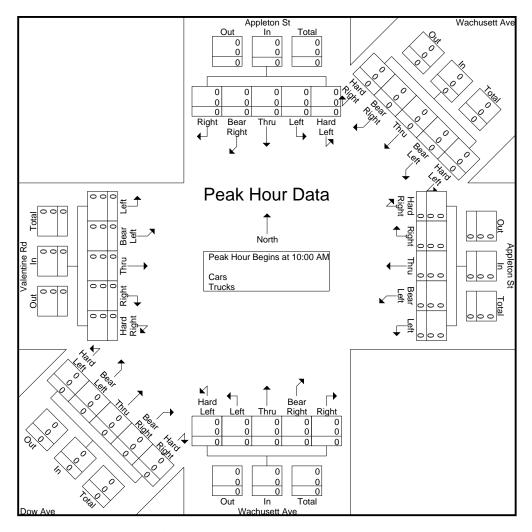
Peak Ho	our f	or E	ntire	e Int	erse	ection	ı Be	gins	at 1	0:00) AN	Λ.																									
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0_
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0	0	0		0	0	0	0	0		0	0	0	0	0		0	0	0	0	0		0	0	0	0	0		0	0	0	0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

978-664-2565

N/S Street : Appleton S t/ Wachusett Ave E/W Street : Appleton St / Valentine Rd

City/State : Arlington, MA Weather : Cloudy File Name : 24228701 Site Code : 24228701 Start Date : 11/9/2023

Page No : 5



Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1 Peak Hour for Each Approach Begins at:

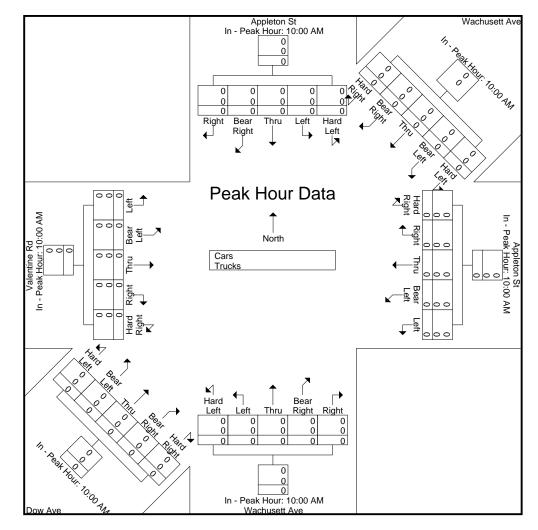
reak no	Jui i	OI L	acii	Th	Ji Ua	טווט ווט	-giii	s at																												
	10:00 A	M					10:00	AM					10:00 A	М					10:00 A	M					10:00 A	М					10:00 A	MM				
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0	0	0		0	0	0	0	0		0	0	0	0	0		0	0	0	0	0		0	0	0	0	0		0	0	0	0	0	
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

978-664-2565

N/S Street : Appleton S t/ Wachusett Ave E/W Street : Appleton St / Valentine Rd City/State : Arlington, MA Weather : Cloudy

File Name: 24228701 Site Code : 24228701 Start Date : 11/9/2023

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Peak Hour Analysis From 02:00 PM to 05:45 PM - Peak 1 of 1

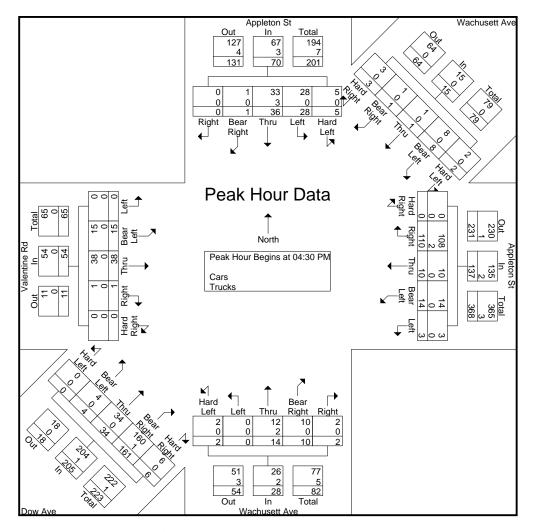
r can ill	Jui 7	niai	yoio	1 10	111 0	2.00	LIVI	io c	J.4.	רו א	1 - F	can	ı Oı	1																							
Peak Ho	our f	or E	ntire	e Int	erse	ction	Ве	gins	at ()4:30	NG C	Λ																									
04:30 PM	0	2	1	0	1	4	0	6	11	0	0	17	3	4	4	34	0	45	0	0	3	1	2	6	0	1	10	32	1	44	0	8	17	0	0	25	141
04:45 PM	1	3	0	0	1	5	0	9	4	0	0	13	0	7	1	22	0	30	1	0	4	1	0	6	0	0	5	38	3	46	0	4	9	0	0	13	113
05:00 PM	1	1	0	1	0	3	3	7	10	0	0	20	0	3	0	24	0	27	1	0	2	3	0	6	0	0	8	49	1	58	0	2	7	1	0	10	124
05:15 PM	0	2	0	0	1	3	2	_6	11	_1_	0	20	0	0	5	30	0	35	0	0	5	5	0	10	0	3	11	42	_1_	57	0	1	5	0	0	6	131
Total Volume	2	8	1	1	3	15	5	28	36	1	0	70	3	14	10	110	0	137	2	0	14	10	2	28	0	4	34	161	6	205	0	15	38	1	0	54	509
% App. Total	13.3	53.3	6.7	6.7	20		7.1	40	51.4	1.4	0		2.2	10.2	7.3	80.3	0		7.1	0	50	35.7	7.1		0	2	16.6	78.5	2.9		0	27.8	70.4	1.9	0		
PHF	.500	.667	.250	.250	.750	.750	.417	.778	.818	.250	.000	.875	.250	.500	.500	.809	.000	.761	.500	.000	.700	.500	.250	.700	.000	.333	.773	.821	.500	.884	.000	.469	.559	.250	.000	.540	.902
Cars	2	8	1	1	3	15	5	28	33	1	0	67	3	14	10	108	0	135	2	0	12	10	2	26	0	4	34	160	6	204	0	15	38	1	0	54	501
% Cars	100	100	100	100	100	100	100	100	91.7	100	0	95.7	100	100	100	98.2	0	98.5	100	0	85.7	100	100	92.9	0	100	100	99.4	100	99.5	0	100	100	100	0	100	98.4
Trucks	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	2	0	2	0	0	2	0	0	2	0	0	0	1	0	1	0	0	0	0	0	0	8
% Trucks	0	0	0	0	0	0	0	0	8.3	0	0	4.3	0	0	0	1.8	0	1.5	0	0	14.3	0	0	7.1	0	0	0	0.6	0	0.5	0	0	0	0	0	0	1.6

978-664-2565

N/S Street: Appleton S t/ Wachusett Ave E/W Street: Appleton St / Valentine Rd

City/State : Arlington, MA Weather : Cloudy File Name : 24228701 Site Code : 24228701 Start Date : 11/9/2023

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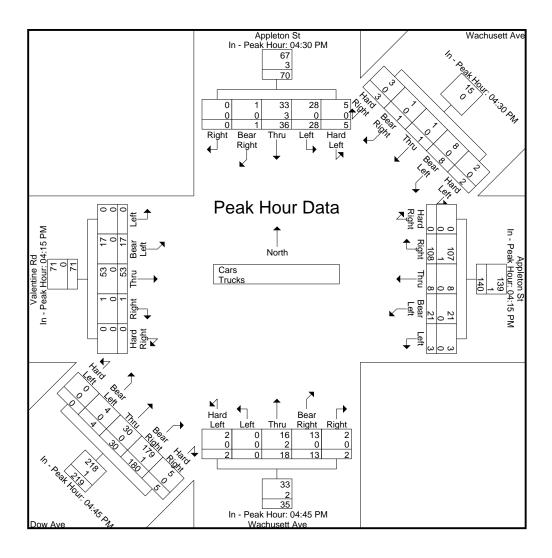
Peak Hour Analysis From 02:00 PM to 05:45 PM - Peak 1 of 1 Peak Hour for Each Approach Begins at:

r ear in	Jui i	<u> </u>	acii	71	noa	CIID	cgii	o at																												
	04:30 F	M					04:30	PM					04:15 F	M					04:45 F	M					04:45 I	PM					04:15 P	M				
+0 mins.	0	2	1	0	1	4	0	6	11	0	0	17	0	7	3	28	0	38	1	0	4	1	0	6	0	0	5	38	3	46	0	3	20	0	0	23
+15 mins.	1	3	0	0	1	5	0	9	4	0	0	13	3	4	4	34	0	45	1	0	2	3	0	6	0	0	8	49	1	58	0	8	17	0	0	25
+30 mins.	1	1	0	1	0	3	3	7	10	0	0	20	0	7	1	22	0	30	0	0	5	5	0	10	0	3	11	42	1	57	0	4	9	0	0	13
+45 mins.	0	2	0	0	1	3	2	6	11	1	0	20	0	3	0	24	0	27	0	0	7	4	2	13	0	1	6	51	0	58	0	2	7	1	0	10
Total Volume	2	8	1	1	3	15	5	28	36	1	0	70	3	21	8	108	0	140	2	0	18	13	2	35	0	4	30	180	5	219	0	17	53	1	0	71
% App. Total	13.3	53.3	6.7	6.7	20		7.1	40	51.4	1.4	0		2.1	15	5.7	77.1	0		5.7	0	51.4	37.1	5.7		0	1.8	13.7	82.2	2.3		0	23.9	74.6	1.4	0	
PHF	.500	.667	.250	.250	.750	.750	.417	.778	.818	.250	.000	.875	.250	.750	.500	.794	.000	.778	.500	.000	.643	.650	.250	.673	.000	.333	.682	.882	.417	.944	.000	.531	.663	.250	.000	.710
Cars	2	8	1	1	3	15	5	2 8	3	1	0	67	3	2 1	8	10 7	0	139	2	0	1 6	1	2	33	0	4	3	17 9	5	218	0	1 7	5 3	1	0	71
% Cars	10 0	10 0	10 0	10 0	10 0	100	10 0	10 0	91. 7	10 0	0	95.7	10 0	10 0	10 0	99. 1	0	99.3	10 0	0	88. 9	10 0	10 0	94.3	0	10 0	10 0	99. 4	10 0	99.5	0	10 0	10 0	10 0	0	100
Trucks	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	1	0	1	0	0	2	0	0	2	0	0	0	1	0	1	0	0	0	0	0	0
% Trucks	0	0	0	0	0	0	0	0	8. 3	0	0	4.3	0	0	0	0. 9	0	0.7	0	0	11. 1	0	0	5.7	0	0	0	0. 6	0	0.5	0	0	0	0	0	0

978-664-2565

N/S Street : Appleton S t/ Wachusett Ave E/W Street : Appleton St / Valentine Rd City/State : Arlington, MA Weather : Cloudy

File Name: 24228701 Site Code : 24228701 Start Date : 11/9/2023 Page No : 8



978-664-2565

N/S Street : Appleton S t/ Wachusett Ave E/W Street : Appleton St / Valentine Rd City/State : Arlington, MA Weather : Cloudy

File Name : 24228701 Site Code : 24228701 Start Date : 11/9/2023 Page No : 9

Groups Printed- Cars

			usett North					oletor					oletor m Ea	n St	01111			uset m So		;	F		ow Av Sout	ve hwes	it			entine m We			
Start Time	Hard	Bear	Thru	Bear	Hard	Hard	Left	Thru	Bear	Right	Left	Bear	Thru	Right	Hard	Hard	Left	Thru	Bear	Right	Hard	Bear	Thru	Bear	Hard	Left	Bear	Thru	Right	Hard	Int. Total
07:00 AM	O Left	2	0	Right	Right 1	O Left	10	6	Right	0	1	7	1	37	Right 1	O Left	0	0	Right 1	0	O	Left 1	0	Right 26	Right	0	Left 1	6	0	Right	101
07:15 AM	1	1	0	0	0	0	5	8	0	0	0	10	3	59	0	0	0	2	0	0	0	1	0	20	1	0	1	13	0	0	125
07:30 AM	1	0	0	0	0	0	9	10	0	1	0	7	4	65	0	0	0	6	1	1	0	0	0	27	0	0	1	10	0	0	143
07:45 AM Total	2	<u>3</u> 6	<u>1</u> 1	0	3	0	10 34	39 63	<u>3</u> 3	<u>0</u> 1	<u>4</u> 5	<u>7</u> 31	<u>4</u> 12	<u>53</u> 214	<u>0</u>	<u>1</u> 1	3	<u>16</u> 24	<u>3</u> 5	2	0	<u>2</u> 4	<u>1</u> 1	<u>16</u> 89	1 2	0	<u>0</u> 3	<u>8</u> 37	<u>4</u> 4	0	182 551
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08:00 AM	0	0	0	0	1	0	9	20	0	0	1	6	2	52	1	1	0	19	2	2	1	1	4	31	5	1	1	15	2	0	177
08:15 AM 08:30 AM	1 0	3 0	0	0	0	0 1	13 4	20 4	0	0	0	13 7	4 3	45 44	0	0	1 1	12 7	2	0	0	0	0	16 24	2	0	0	7 10	1 0	0	140 106
08:45 AM	0	2	0	0	0	0	4	7	0	0	1	9	2	39	0	0	1	1	3	1	1	0	0	24 17	1	0	0	0	0	0	89_
Total	1	5	0	0	1	1	30	51	0	0	3	35	11	180	1	1	3	39	7	3	2	1	4	88	8	1	1	32	3	0	512
00.00.414		0	0	^	0	^	^	0	^	^	_	0	0	0	0		^	0	^	ا م	0	^	^	0	0		0	0	0	ا م	0
09:00 AM 09:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09:30 AM	0	Ö	Ö	0	0	0	0	0	0	0	Ö	Ö	Ö	Ö	Ö	0	0	0	Ö	0	Ö	0	0	0	0	0	0	Ö	Ö	0	Ö
09:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0_
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0
10:30 AM 10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45 AM Total	0	<u>0</u>	0	0	0	<u>0</u> 0	0	0 0	0	<u>0</u> 0	0	0	<u>0</u> 0	<u>0</u> _	0	0	0	<u>0</u>	0	0	0	0	<u>0</u> 0	<u>0</u> 0	0	0	0	<u>0</u>	0	0	0
					,										-					,					-				_	- '	
12:00 PM 12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 PM	0	0	0	0	0	0	0	0_	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0_
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:30 PM 01:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:45 PM Total	0	<u>0</u>	0	0	0	<u>0</u> 0	<u>0</u> 0	<u>0</u> 0	0	<u>0</u> 0	0	<u>0</u>	<u>0</u> 0	<u>0</u> _	0	0	0	<u>0</u> 0	0	0	<u>0</u>	0	<u>0</u>	<u>0</u>	0	0	0	<u>0</u> _	0	0	<u>0</u>
					- '										-																
03:00 PM 03:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0_
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00 PM	0	1	0	1	0	0	10	6	0	1	0	4	2	20	0	1	0	1	1	0	0	0	3	48	0	0	2	6	0	0	107
04:15 PM 04:30 PM	0	0 2	0 1	0	0	0	6 6	2 10	0	0	0 3	7 4	3 4	28 33	0	1	0	1 3	0 1	0 2	0	0 1	5 10	47 32	1 1	0	3 8	20 17	0	0	124 139
04:45 PM	1	3	0	0	1	0	9	3	0	0	0	7	1	22	0	1	0	3	1	0	0	0	5	37	3	0	4	9	0	0	110
Total	1	6	1	1	2	0	31	21	0	1	3	22	10	103	0	3	0	8	3	2	0	1	23	164	5	0	17	52	0	0	480

978-664-2565

N/S Street : Appleton S t/ Wachusett Ave E/W Street : Appleton St / Valentine Rd City/State : Arlington, MA Weather : Cloudy

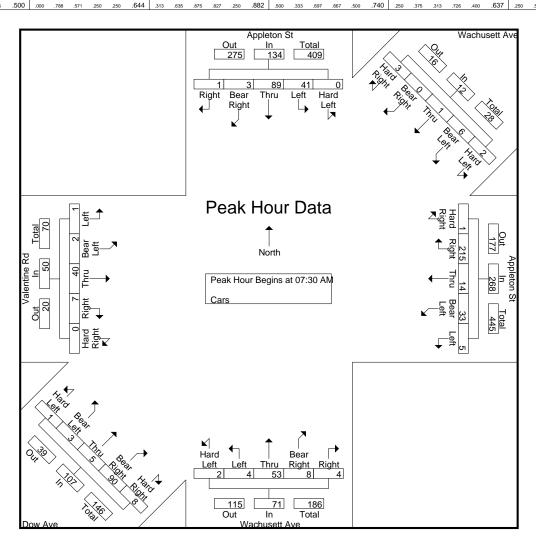
File Name: 24228701 Site Code : 24228701 Start Date : 11/9/2023

Page No : 10

Groups Printed- Cars

	'	Wacł	nuset	t Ave)		App	oletor	n St			App	oleto	n St		1	Wach	nuset	t Ave	;		Do	w A	ve			Vale	entine	Rd		
	F	rom	Nort	heas	t		Fro	m No	orth			Fro	m Ea	ast			Fro	m Sc	outh		F	rom	Sout	hwes	t		Fro	m W	est		
Start Time	Hard Left	Bear Left	Thru	Bear Right	Hard Right	Hard Left	Left	Thru	Bear Right	Right	Left	Bear Left	Thru	Right	Hard Right	Hard Left	Left	Thru	Bear Right	Right	Hard Left	Bear Left	Thru	Bear Right	Hard Right	Left	Bear Left	Thru	Right	Hard Right	Int. Total
05:00 PM	1	1	0	1	0	3	7	10	0	0	0	3	0	24	0	1	0	2	3	0	0	0	8	49	1	0	2	7	1	0	124
05:15 PM	0	2	0	0	1	2	6	10	1	0	0	0	5	29	0	0	0	4	5	0	0	3	11	42	1	0	1	5	0	0	128
05:30 PM	0	1	0	0	0	1	7	5	0	1	2	3	3	23	0	0	0	7	4	2	0	1	6	51	0	0	2	20	1	0	140
05:45 PM	0	2	1	0	1	1	9	3	0	1	0	7	1	24	0	0	0	1	1	1	0	1	7	34	1	0	2	9	0	0	107
Total	1	6	1	1	2	7	29	28	1	2	2	13	9	100	0	1	0	14	13	3	0	5	32	176	3	0	7	41	2	0	499
Grand Total	5	23	3	2	8	8	124	163	4	4	13	101	42	597	2	6	6	85	28	10	2	11	60	517	18	1	28	162	9	0	2042
Apprch %	12.2	56.1	7.3	4.9	19.5	2.6	40.9	53.8	1.3	1.3	1.7	13.4	5.6	79.1	0.3	4.4	4.4	63	20.7	7.4	0.3	1.8	9.9	85	3	0.5	14	81	4.5	0	
Total %	0.2	1.1	0.1	0.1	0.4	0.4	6.1	8	0.2	0.2	0.6	4.9	2.1	29.2	0.1	0.3	0.3	4.2	1.4	0.5	0.1	0.5	2.9	25.3	0.9	0	1.4	7.9	0.4	0	l

													pple	eton	St			Wa	chu	sett	Ave				Dow	Ave	е			Va	alent	ine	Rd				
		From Northeast From North From East Har Bea Har Har Har Bea Har Har <td></td> <td>F</td> <td>rom</td> <td>Sou</td> <td>uth</td> <td></td> <td></td> <td>Fror</td> <td>n S</td> <td>outh</td> <td>wes</td> <td>t</td> <td></td> <td>F</td> <td>rom</td> <td>Wes</td> <td>st</td> <td></td> <td></td>															F	rom	Sou	uth			Fror	n S	outh	wes	t		F	rom	Wes	st					
Start Time	Har d Left	Bea r Left	Thr	Bea r Righ		App. Total	Har d Left	Left	Thr	Bea r Righ	Righ t	App. Total	Left	Bea r Left	Thr	Righ t		App. Total	Har d Left	Left	Thr	Bea r Righ	Righ t	App. Total	Har d Left	Bea r Left	Thr	Bea r Righ	Har d Righ t	App. Total	Left	Bea r Left	Thr	Righ t	Har d Righ t	App. Total	Int. Total
Peak Ho	our <i>i</i>	Ana	lysis	Fro	m 0	7:00	AM	to 0	9:45	5 AN	1 - P	eak	1 of	1																							
Peak Ho	our f	for E	ntire	e Int	erse	ection	Ве	gins	at (7:30	0 AN	Λ																									
07:30 AM	1	0	0	0	0	1	0	⁹	10	0	1	20	0	7	4	65	0	76	0	0	6	1	1	8	0	0	0	27	0	27	0	1	10	0	0	11	143
07:45 AM	0	3	1	0	2	6	0	10	39	3	0	52	4	7	4	53	0	68	1	3	16	3	1	24	0	2	1	16	1	20	0	0	8	4	0	12	182
08:00 AM	0	0	0	0	1	1	0	9	20	0	0	29	1	6	2	52	1	62	1	0	19	2	2	24	1	1	4	31	5	42	1	1	15	2	0	19	177
08:15 AM	1	3	0	0	0	4	0	13	20	0	0	33	0	13	4	45	0	62	0	1	12	2	0	15	0	0	0	16	2	18	0	0	7	1	0	8	140
Total Volume	2	6	1	0	3	12	0	41	89	3	1	134	5	33	14	215	1	268	2	4	53	8	4	71	1	3	5	90	8	107	1	2	40	7	0	50	642
% App. Total	16.7	50	8.3	0	25		0	30.6	66.4	2.2	0.7		1.9	12.3	5.2	80.2	0.4		2.8	5.6	74.6	11.3	5.6		0.9	2.8	4.7	84.1	7.5		2	4	80	14	0		
PHF	.500	.500	.250	.000	.375	.500	.000	.788	.571	.250	.250	.644	.313	.635	.875	.827	.250	.882	.500	.333	.697	.667	.500	.740	.250	.375	.313	.726	.400	.637	.250	.500	.667	.438	.000	.658	.882



978-664-2565

N/S Street : Appleton S t/ Wachusett Ave E/W Street : Appleton St / Valentine Rd

City/State : Arlington, MA Weather : Cloudy File Name : 24228701 Site Code : 24228701 Start Date : 11/9/2023

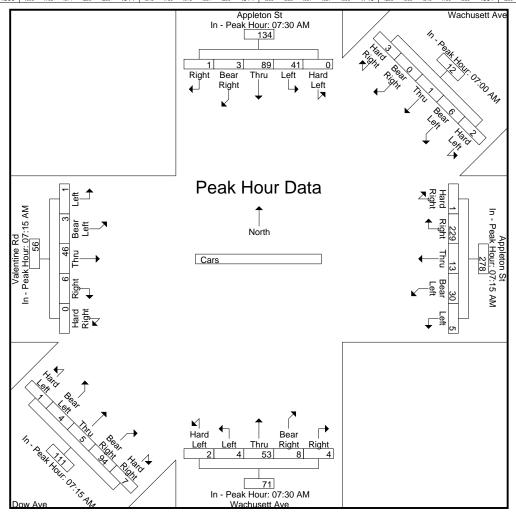
Page No : 11

					Ave east				pple						pple ron							sett Sou	Ave uth	!		Froi	Dow n So		e wes	it			alent rom				
Start Time	Har d Left	Bea r Left	Thr	Bea r Righ	Har d Righ	App. Total	Har d Left	Left	Thr	Bea r Righ	Righ t	App.	Left	Bea r Left	Thr	Righ t	Har d Righ	App. Total	Har d Left	Left	Thr	Bea r Righ	Righ t	App. Total	Har d Left	Bea r Left	Thr	Bea r Righ	Har d Righ	App. Total	Left	Bea r Left	Thr	Righ t	Har d Righ	App. Total	Int. Total

Peak Hour Analysis From 07:00 AM to 09:45 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	07:00	AM					07:30	AM					07:15	AM					07:30	AM					07:15	AM					07:15 A	AM				
+0 mins.	0	2	0	0	1	3	0	9	10	0	1	20	0	10	3	59	0	72	0	0	6	1	1	8	0	1	0	20	1	22	0	1	13	0	0	14
+15 mins.	1	1	0	0	0	2	0	10	39	3	0	52	0	7	4	65	0	76	1	3	16	3	1	24	0	0	0	27	0	27	0	1	10	0	0	11
+30 mins.	1	0	0	0	0	1	0	9	20	0	0	29	4	7	4	53	0	68	1	0	19	2	2	24	0	2	1	16	1	20	0	0	8	4	0	12
+45 mins.	0	3	1	0	2	6	0	13	20	0	0	33	1	6	2	52	1	62	0	1	12	2	0	15	1	1	4	31	5	42	1	1	15	2	0	19
Total Volume	2	6	1	0	3	12	0	41	89	3	1	134	5	30	13	229	1	278	2	4	53	8	4	71	1	4	5	94	7	111	1	3	46	6	0	56
% App. Total	16.7	50	8.3	0	25		0	30.6	66.4	2.2	0.7		1.8	10.8	4.7	82.4	0.4		2.8	5.6	74.6	11.3	5.6		0.9	3.6	4.5	84.7	6.3		1.8	5.4	82.1	10.7	0	
PHF	.500	.500	.250	.000	.375	.500	.000	.788	.571	.250	.250	.644	.313	.750	.813	.881	.250	.914	.500	.333	.697	.667	.500	.740	.250	.500	.313	.758	.350	.661	.250	.750	.767	.375	.000	.737



Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1

Peak Hour for	Entire	Intersection	Begins at	10:00 AM

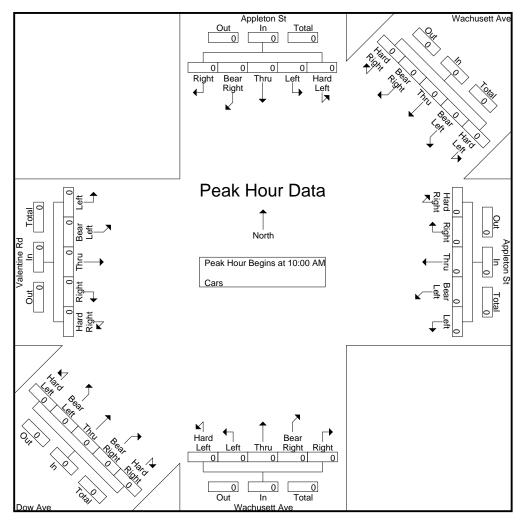
I Cak III	Jui i	01 L		, ,,,,,,	CISC	Ction	ים י	giiis	aı	0.0	<i>J</i> / (1)	٠.																									
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0_	0	0_
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0	0	0		0	0	0	0	0		0	0	0	0	0		0	0	0	0	0		0	0	0	0	0		0	0	0	0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

978-664-2565

N/S Street : Appleton S t/ Wachusett Ave E/W Street : Appleton St / Valentine Rd

City/State : Arlington, MA Weather : Cloudy

File Name: 24228701 Site Code : 24228701 Start Date : 11/9/2023 Page No : 12



Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

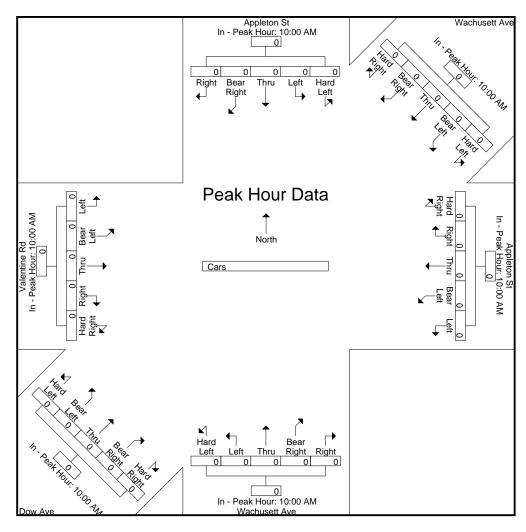
I Cak I iç	<u> </u>	<u> </u>	uon	, ,b,	,, ,,	<u> </u>	<u> </u>	io at	•																											$\overline{}$
	10:00 A	.M					10:00	AM					10:00 A	.M					10:00 A	M					10:00	AM					10:00 A	М				
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0	0	0		0	0	0	0	0		0	0	0	0	0		0	0	0	0	0		0	0	0	0	0		0	0	0	0	0	
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

978-664-2565

N/S Street : Appleton S t/ Wachusett Ave E/W Street : Appleton St / Valentine Rd

City/State : Arlington, MA Weather : Cloudy

File Name: 24228701 Site Code : 24228701 Start Date : 11/9/2023 Page No : 13



Peak Hour Analysis From 02:00 PM to 05:45 PM - Peak 1 of 1

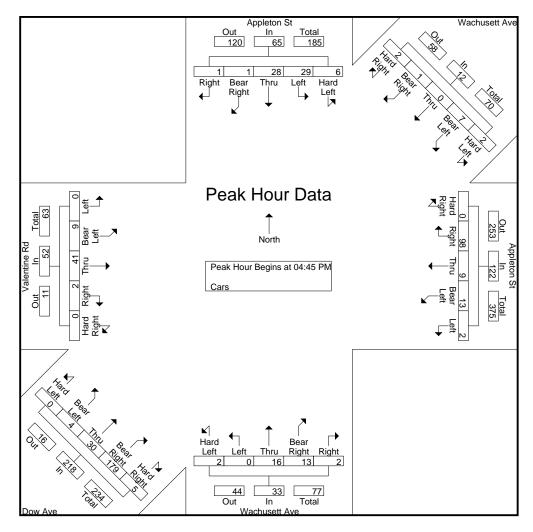
			,											-																							
Peak He	our i	for E	ntire	e Int	erse	ection	ì Ве	gins	at ()4:4	5 PN	Λ																									
04:45 PM	1	3	0	0	1	5	0	ັ 9	3	0	0	12	0	7	1	22	0	30	1	0	3	1	0	5	0	0	5	37	3	45	0	4	9	0	0	13	110
05:00 PM	1	1	0	1	0	3	3	7	10	0	0	20	0	3	0	24	0	27	1	0	2	3	0	6	0	0	8	49	1	58	0	2	7	1	0	10	124
05:15 PM	0	2	0	0	1	3	2	6	10	1	0	19	0	0	5	29	0	34	0	0	4	5	0	9	0	3	11	42	1	57	0	1	5	0	0	6	128
05:30 PM	0	1	0	0	0	1	1	7	5	0	1	14	2	3	3	23	0	31	0	0	7	4	2	13	0	1	6	51	0	58	0	2	20	1	0	23	140
Total Volume	2	7	0	1	2	12	6	29	28	1	1	65	2	13	9	98	0	122	2	0	16	13	2	33	0	4	30	179	5	218	0	9	41	2	0	52	502
% App. Total	16.7	58.3	0	8.3	16.7		9.2	44.6	43.1	1.5	1.5		1.6	10.7	7.4	80.3	0		6.1	0	48.5	39.4	6.1		0	1.8	13.8	82.1	2.3		0	17.3	78.8	3.8	0		
PHF	.500	.583	.000	.250	.500	.600	.500	.806	.700	.250	.250	.813	.250	.464	.450	.845	.000	.897	.500	.000	.571	.650	.250	.635	.000	.333	.682	.877	.417	.940	.000	.563	.513	.500	.000	.565	.896

978-664-2565

N/S Street : Appleton S t/ Wachusett Ave E/W Street : Appleton St / Valentine Rd

City/State : Arlington, MA Weather : Cloudy

File Name: 24228701 Site Code : 24228701 Start Date : 11/9/2023 Page No : 14



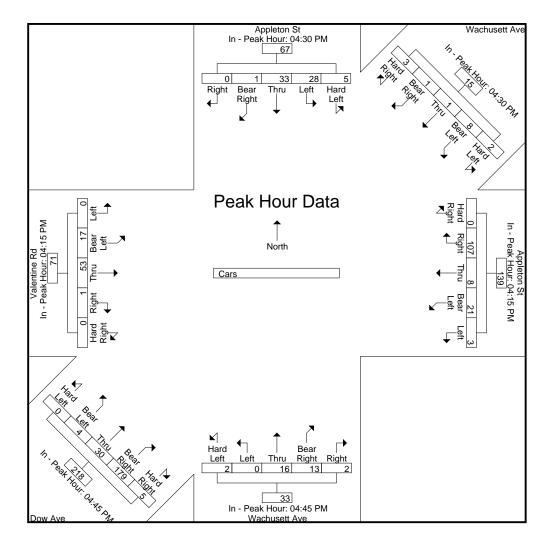
Peak Hour Analysis From 02:00 PM to 05:45 PM - Peak 1 of 1 Peak Hour for Each Approach Begins at:

reak no	Jul I	<u> </u>	acii	7	Ji Oa	<u> </u>	<u>cyn</u>	is at																												
	04:30 P	M					04:30	PM					04:15 P	M					04:45 F	M					04:45 F	PM					04:15 P	M				
+0 mins.	0	2	1	0	1	4	0	6	10	0	0	16	0	7	3	28	0	38	1	0	3	1	0	5	0	0	5	37	3	45	0	3	20	0	0	23
+15 mins.	1	3	0	0	1	5	0	9	3	0	0	12	3	4	4	33	0	44	1	0	2	3	0	6	0	0	8	49	1	58	0	8	17	0	0	25
+30 mins.	1	1	0	1	0	3	3	7	10	0	0	20	0	7	1	22	0	30	0	0	4	5	0	9	0	3	11	42	1	57	0	4	9	0	0	13
+45 mins.	0	2	0	0	1	3	2	6	10	1	0	19	0	3	0	24	0	27	0	0	7	4	2	13	0	1	6	51	0	58	0	2	7	1	0	10
Total Volume	2	8	1	1	3	15	5	28	33	1	0	67	3	21	8	107	0	139	2	0	16	13	2	33	0	4	30	179	5	218	0	17	53	1	0	71
% App. Total	13.3	53.3	6.7	6.7	20		7.5	41.8	49.3	1.5	0		2.2	15.1	5.8	77	0		6.1	0	48.5	39.4	6.1		0	1.8	13.8	82.1	2.3		0	23.9	74.6	1.4	0	
PHF	.500	.667	.250	.250	.750	.750	.417	.778	.825	.250	.000	.838	.250	.750	.500	.811	.000	.790	.500	.000	.571	.650	.250	.635	.000	.333	.682	.877	.417	.940	.000	.531	.663	.250	.000	.710

978-664-2565

N/S Street : Appleton S t/ Wachusett Ave E/W Street : Appleton St / Valentine Rd City/State : Arlington, MA Weather : Cloudy

File Name : 24228701 Site Code : 24228701 Start Date : 11/9/2023 Page No : 15



978-664-2565

N/S Street : Appleton S t/ Wachusett Ave E/W Street : Appleton St / Valentine Rd City/State : Arlington, MA Weather : Cloudy

File Name : 24228701 Site Code : 24228701 Start Date : 11/9/2023 Page No : 16

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Total	0	0	0	0	0	0	1	2	0	0	0	1	1	2	0	1	0	2	1	0	0	0	0	5	0	0	0	0	0	0	16
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09:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09:30 AM 09:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0
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10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45 AM Total	0	<u>0</u> _	<u>0</u> 0	<u>0</u>	0	0	<u>0</u> 0	0 0	<u>0</u> 0	0	<u>0</u> 0	<u>0</u> _	<u>0</u> 0	<u>0</u> 0	0	<u>0</u> 0	0	0	<u>0</u> 0	0	<u>0</u> 0	<u>0</u> _	0	<u>0</u>	0	<u>0</u>	<u>0</u> 0	0	<u>0</u> 0	0	0
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12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 PM Total	0	<u>0</u> _	<u>0</u> 0	<u>0</u> _	0	0	<u>0</u>	<u>0</u> 0	<u>0</u> 0	0	<u>0</u> 0	<u>0</u> _	<u>0</u> 0	<u>0</u> 0	0	<u>0</u> 0	<u>0</u> 0	<u>0</u> _	<u>0</u> 0	0	<u>0</u> 0	0	<u>0</u> 0	0	0	0	0	0	0	0	0
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01:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:45 PM Total	0	<u>0</u> 0	<u>0</u> 0	0	0	0	<u>0</u> 0	<u>0</u> 0	0	0	<u>0</u> 0	<u>0</u> 0	0	0	0	<u>0</u> 0	0	0	0	0	<u>0</u> 0	<u>0</u> 0	0	<u>0</u> 0	0	<u>0</u> 0	<u>0</u> 0	0	0	0	<u> </u>
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02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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03:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:45 PM	0	<u>0</u> 0	<u>0</u> 0	<u>0</u> 0	0	0	<u>0</u> 0	0 0	<u>0</u> 0	0	<u>0</u> 0	<u>0</u> 0	<u>0</u> 0	<u>0</u> 0	0	<u>0</u> 0	<u>0</u> 0	<u>0</u> 0	0 0	0	<u>0</u> 0	<u>0</u> 0	<u>0</u> 0	0	0	<u>0</u> 0	<u>0</u> 0	<u>0</u> 0	<u>0</u> 0	0	<u> </u>
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04:00 PM	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	3
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	2
04:30 PM	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
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978-664-2565

N/S Street : Appleton S t/ Wachusett Ave E/W Street : Appleton St / Valentine Rd City/State : Arlington, MA Weather : Cloudy

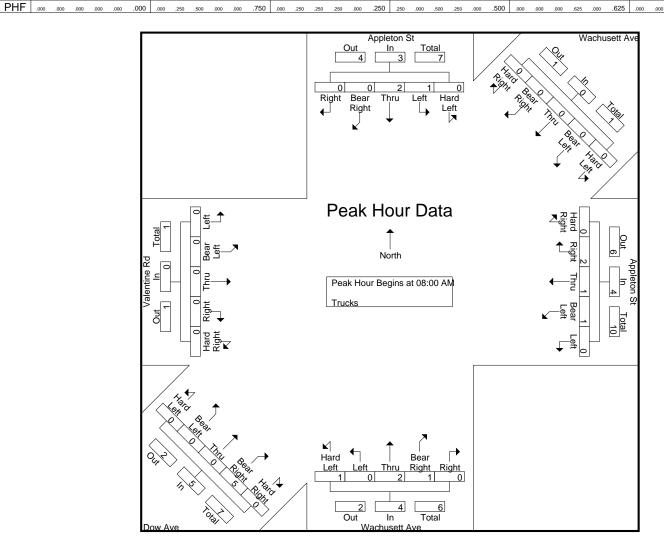
File Name: 24228701 Site Code : 24228701 Start Date : 11/9/2023

Page No : 17

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GIOUDS	Printeu-	TTUCKS

	١	Wachusett Ave Appleton St										App	oletor	n St		1	Wach	nuset	t Ave	.		Do	w A	ve			Vale	entine	e Rd		
	F	rom	Nort	heast	t		Fro	m No	orth			Fro	m Ea	ast			Fro	m Sc	outh		F	rom	Sout	hwes	t		Fro	m W	est		
Start Time	Hard Left	Bear Left	Thru	Bear Right	Hard Right	Hard Left	Left	Thru	Bear Right	Right	Left	Bear Left	Thru	Right	Hard Right	Hard Left	Left	Thru	Bear Right	Right	Hard Left	Bear Left	Thru	Bear Right	Hard Right	Left	Bear Left	Thru	Right	Hard Right	Int. Total
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	3
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	4
Grand Total	0	0	0	0	0	0	1	8	0	0	0	1	1	6	0	1	0	8	1	0	0	0	0	12	0	0	0	0	0	0	39
Apprch %	0	0	0	0	0	0	11.1	88.9	0	0	0	12.5	12.5	75	0	10	0	80	10	0	0	0	0	100	0	0	0	0	0	0	
Total %	0	0	0	0	0	0	2.6	20.5	0	0	0	2.6	2.6	15.4	0	2.6	0	20.5	2.6	0	0	0	0	30.8	0	0	0	0	0	0	

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		Fro	m N	orth	east			F	rom	Nor	th			F	rom	Eas	st			F	om	Sou	ıth			Fror	n S	outh	west	t		Fr	om	Wes	<u>st</u>		
Start Time	From Northeast From North										Left	Bea r Left	Thr	Righ t	Har d Righ t	App. Total	Har d Left	Left	Thr	Bea r Righ t	Righ t	App. Total	Har d Left	Bea r Left	Thr	Bea r Righ t	Har d Righ t	App. Total	Left	Bea r Left	Thr	Righ t	Har d Righ t	App. Total	Int. Total		
Peak Ho	our /	Anal	lysis	Fro	m 0	7:00	ΑM	to 0	9:45	5 AM	l - Pe	eak 1	1 of	1																							
Peak Ho	our f	or E	ntire	e Int	erse	ction	Ве	gins	at C	0:80) AM	1																									
08:00 AM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	2
08:15 AM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	0	1	0	0	2	0	0	0	1	0	1	0	0	0	0	0	0	4
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	2
08:45 AM	0	0	0	0	0	0	0	1	0	0	0	1	0	1	1	2	0	4	0	0	1	1	0	2	0	0	0	1	0	1	0	0	0	0	0	0	8
Total Volume	0	0	0	0	0	0	0	1	2	0	0	3	0	1	1	2	0	4	1	0	2	1	0	4	0	0	0	5	0	5	0	0	0	0	0	0	16
% App. Total	0	0	0	0	0		0	33.3	66.7	0	0		0	25	25	50	0		25	0	50	25	0		0	0	0	100	0		0	0	0	0	0_		



978-664-2565

N/S Street : Appleton S t/ Wachusett Ave E/W Street : Appleton St / Valentine Rd

City/State : Arlington, MA Weather : Cloudy File Name : 24228701 Site Code : 24228701 Start Date : 11/9/2023

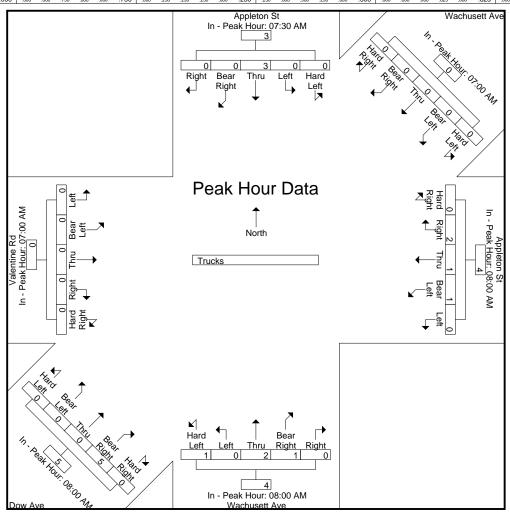
Page No : 18

Start Time Har Bea Thr r d App. Har Thr r d App. d App. Left Thr Righ Total Left Left						Ave					eton 1 No				pple ron					rom		Ave uth	!			Dow n So		e wes	t			alen rom			
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Peak Hour Analysis From 07:00 AM to 09:45 AM - Peak 1 of 1

Paak	Hour	tor ⊢ach	Annroach	Begins at:

	07:00 A	AM					07:30	AM					08:00	M					08:00	AM.					08:00 A	.M					07:00	MM				
+0 mins.	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	2	0	0	0	1	0	1	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	1	0	0	1	0	1	1	2	0	4	0	0	1	1	0	2	0	0	0	1	0	1	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	3	0	0	3	0	1	1	2	0	4	1	0	2	1	0	4	0	0	0	5	0	5	0	0	0	0	0	0
% App. Total	0	0	0	0	0		0	0	100	0	0		0	25	25	50	0		25	0	50	25	0		0	0	0	100	0		0	0	0	0	0	
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.750	.000	.000	.750	.000	.250	.250	.250	.000	.250	.250	.000	.500	.250	.000	.500	.000	.000	.000	.625	.000	.625	.000	.000	.000	.000	.000	.000



Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1

Peak Hour	for Entire	Intersection	Begins at	10:00 AM

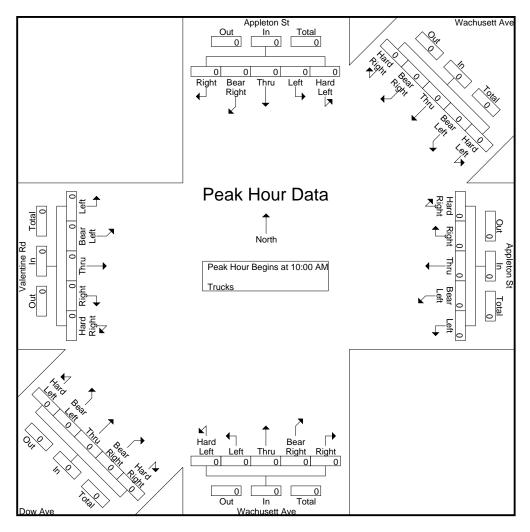
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10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0_
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0	0	0		0	0	0	0	0		0	0	0	0	0		0	0	0	0	0		0	0	0	0	0		0	0	0	0	0		
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978-664-2565

N/S Street : Appleton S t/ Wachusett Ave E/W Street : Appleton St / Valentine Rd

City/State : Arlington, MA Weather : Cloudy

File Name: 24228701 Site Code : 24228701 Start Date : 11/9/2023 Page No : 19



Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1 Peak Hour for Each Approach Begins at:

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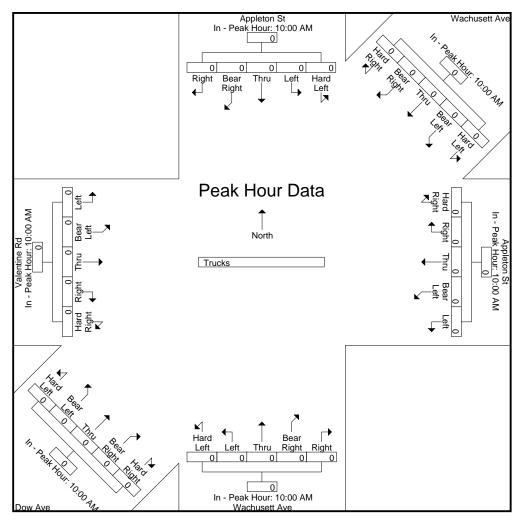
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978-664-2565

N/S Street : Appleton S t/ Wachusett Ave E/W Street : Appleton St / Valentine Rd

City/State : Arlington, MA Weather : Cloudy File Name : 24228701 Site Code : 24228701 Start Date : 11/9/2023

Page No : 20



Peak Hour Analysis From 02:00 PM to 05:45 PM - Peak 1 of 1

PHF

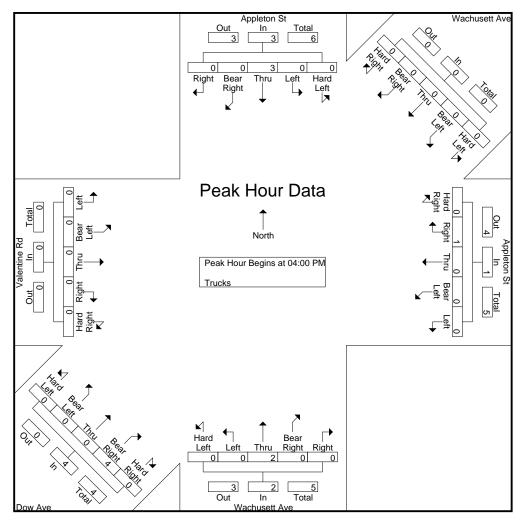
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978-664-2565

N/S Street : Appleton S t/ Wachusett Ave E/W Street : Appleton St / Valentine Rd

City/State : Arlington, MA Weather : Cloudy

File Name: 24228701 Site Code : 24228701 Start Date : 11/9/2023 Page No : 21



Peak Hour Analysis From 02:00 PM to 05:45 PM - Peak 1 of 1

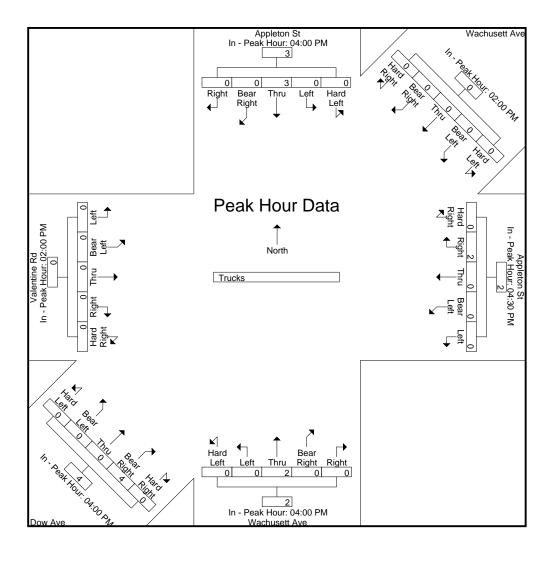
Peak Hour for Each Approach Begins at:

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Total Volume	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	2	0	2	0	0	2	0	0	2	0	0	0	4	0	4	0	0	0	0	0	0
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978-664-2565

N/S Street : Appleton S t/ Wachusett Ave E/W Street : Appleton St / Valentine Rd City/State : Arlington, MA Weather : Cloudy

File Name: 24228701 Site Code : 24228701 Start Date : 11/9/2023 Page No : 22



978-664-2565

N/S Street : Appleton S t/ Wachusett Ave E/W Street : Appleton St / Valentine Rd City/State : Arlington, MA Weather : Cloudy

File Name: 24228701 Site Code : 24228701 Start Date : 11/9/2023 Page No : 23

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978-664-2565

N/S Street : Appleton S t/ Wachusett Ave E/W Street : Appleton St / Valentine Rd $\,$

City/State : Arlington, MA Weather : Cloudy

PHF

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File Name : 24228701 Site Code : 24228701 Start Date : 11/9/2023

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Page No : 24

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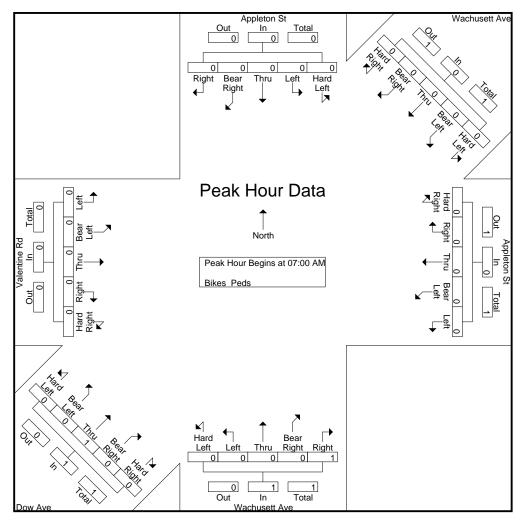
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978-664-2565

N/S Street : Appleton S t/ Wachusett Ave E/W Street : Appleton St / Valentine Rd City/State : Arlington, MA Weather : Cloudy

File Name: 24228701 Site Code : 24228701 Start Date : 11/9/2023 Page No : 25



Peak Hour Analysis From 07:00 AM to 09:45 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

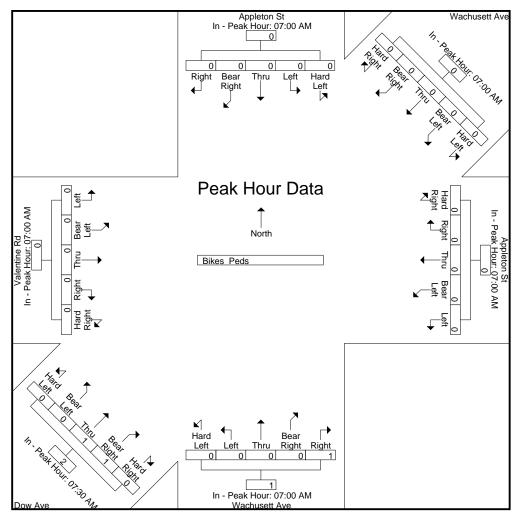
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+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	1	0	2	0	0	0	0	0	0
% App. Total	0	0	0	0	0		0	0	0	0	0		0	0	0	0	0		0	0	0	0	100		0	0	50	50	0		0	0	0	0	0	
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.250	.250	.000	.000	.250	.250	.000	.500	.000	.000	.000	.000	.000	.000

978-664-2565

N/S Street: Appleton S t/ Wachusett Ave E/W Street: Appleton St / Valentine Rd

City/State : Arlington, MA Weather : Cloudy File Name : 24228701 Site Code : 24228701 Start Date : 11/9/2023

Page No : 26



Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1 Peak Hour for Entire Intersection Begins at 10:00 AM

PHF

Реак н	our t	or ⊨	ntire	e inte	ersec	ction	Be	gıns	at 1	10:00	J AIVI																										
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0_
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0	0	0		0	0	0	0	0		0	0	0	0	0		0	0	0	0	0		0	0	0	0	0		0	0_	0	0_	0		

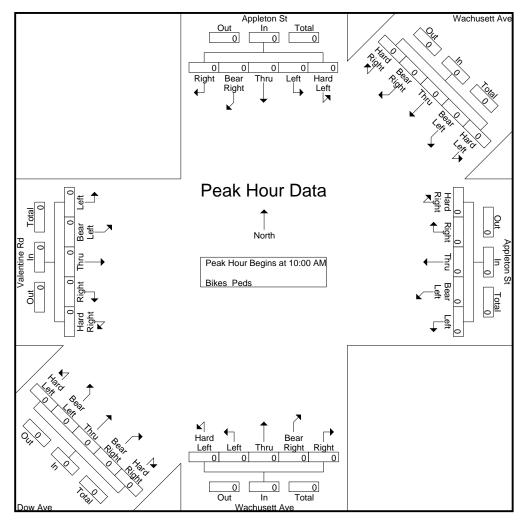
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978-664-2565

N/S Street : Appleton S t/ Wachusett Ave E/W Street : Appleton St / Valentine Rd

City/State : Arlington, MA Weather : Cloudy

File Name: 24228701 Site Code : 24228701 Start Date : 11/9/2023 Page No : 27



Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

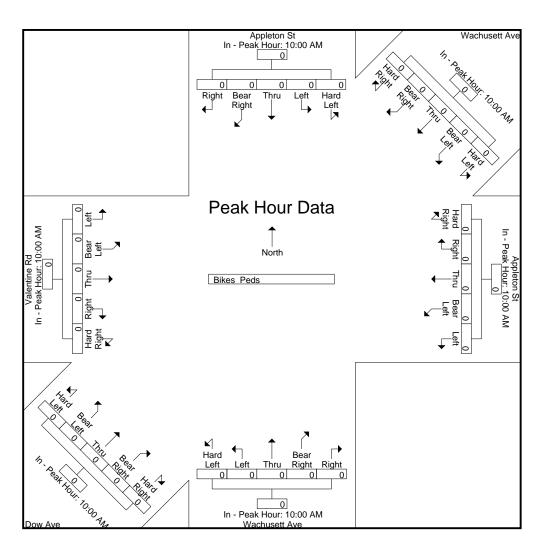
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	10:00 A	.M					10:00	AM					10:00 A	.M					10:00 A	M					10:00	AM					10:00 A	М				
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0	0	0		0	0	0	0	0		0	0	0	0	0		0	0	0	0	0		0	0	0	0	0		0	0	0	0	0	
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

978-664-2565

N/S Street : Appleton S t/ Wachusett Ave E/W Street : Appleton St / Valentine Rd

City/State : Arlington, MA Weather : Cloudy

File Name: 24228701 Site Code : 24228701 Start Date : 11/9/2023 Page No : 28



Peak Hour Analysis From 02:00 PM to 05:45 PM - Peak 1 of 1

Реак Н	our	tor 占	ntire	e int	erse	ction	Beg	gıns	at u	12:00) PIV	
00 00 014						\sim						_

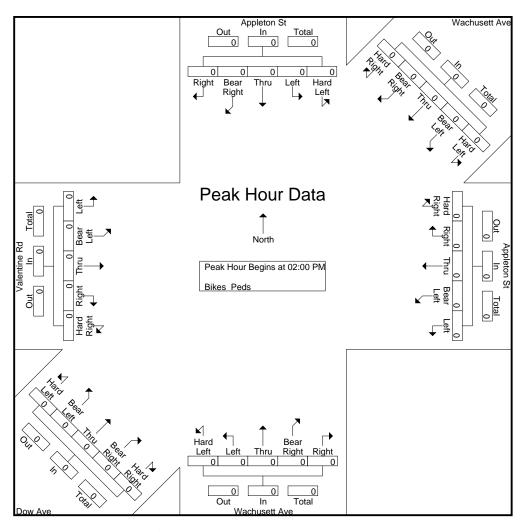
Peak H	our i	OL E	nure	e int	erse	CUOI	рье	gins	att	JZ:U	UPIV	η.																									
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	_0_	0	0_
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0	0	0		0	0	0	0	0		0	0	0	0	0		0	0	0	0	0		0	0	0	0	0		0	0	0	0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

978-664-2565

N/S Street : Appleton S t/ Wachusett Ave E/W Street : Appleton St / Valentine Rd

City/State : Arlington, MA Weather : Cloudy

File Name: 24228701 Site Code : 24228701 Start Date : 11/9/2023 Page No : 29



Peak Hour Analysis From 02:00 PM to 05:45 PM - Peak 1 of 1 Peak Hour for Each Approach Begins at:

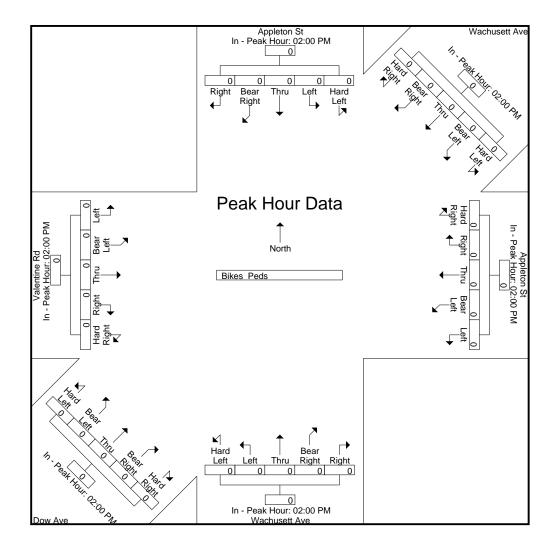
reak n	our ior	Each Approach	begins at.	
	02:00 PM		02:00 PM	

- oak i iç		<u> </u>	<u> </u>	<u>, , , L</u>	,, ,,,	··· -	<u> </u>																													$\overline{}$
	02:00 P	M					02:00	PM					02:00 F	M					02:00	PM					02:00 I	PM					02:00 F	м				
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0	0	0		0	0	0	0	0		0	0	0	0	0		0	0	0	0	0		0	0	0	0	0		0	0	0	0	0	
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

978-664-2565

N/S Street : Appleton S t/ Wachusett Ave E/W Street : Appleton St / Valentine Rd City/State : Arlington, MA Weather : Cloudy

File Name: 24228701 Site Code : 24228701 Start Date : 11/9/2023 Page No : 30



Intersection			
Intersection Delay, s/veh	9.5		
Intersection LOS	Α		

	EDI	EDT	EDD	MDI	MOT	14/00	NDI	NDT	NDD	001	ODT	000
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	11	133	15	5	47	218	7	63	4	43	98	5
Future Vol, veh/h	11	133	15	5	47	218	7	63	4	43	98	5
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	12	145	16	5	51	237	8	68	4	47	107	5
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0
Approach	EB			WB			NB			SB		
Opposing Approach	WB			EB			SB			NB		
Opposing Lanes	1			1			1			1		
Conflicting Approach Left	SB			NB			EB			WB		
Conflicting Lanes Left	1			1			1			1		
Conflicting Approach Right	NB			SB			WB			EB		
Conflicting Lanes Right	1			1			1			1		
HCM Control Delay, s/veh	9.4			9.6			9			9.7		
HCM LOS	Α			Α			Α			Α		

Lane	NBLn1	EBLn1	WBLn1	SBLn1	
Vol Left, %	9%	7%	2%	29%	
Vol Thru, %	85%	84%	17%	67%	
Vol Right, %	5%	9%	81%	3%	
Sign Control	Stop	Stop	Stop	Stop	
Traffic Vol by Lane	74	159	270	146	
LT Vol	7	11	5	43	
Through Vol	63	133	47	98	
RT Vol	4	15	218	5	
Lane Flow Rate	80	173	293	159	
Geometry Grp	1	1	1	1	
Degree of Util (X)	0.116	0.232	0.349	0.225	
Departure Headway (Hd)	5.18	4.829	4.28	5.113	
Convergence, Y/N	Yes	Yes	Yes	Yes	
Cap	685	738	836	697	
Service Time	3.265	2.893	2.333	3.191	
HCM Lane V/C Ratio	0.117	0.234	0.35	0.228	
HCM Control Delay, s/veh	9	9.4	9.6	9.7	
HCM Lane LOS	А	Α	Α	Α	
HCM 95th-tile Q	0.4	0.9	1.6	0.9	

Intersection												
Int Delay, s/veh	8.6											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	11	133	15	5	47	218	7	63	4	43	98	5
Future Vol., veh/h	11	133	15	5	47	218	7	63	4	43	98	5
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	_	None
Storage Length	-	-	-	-	-	-	-	-	_	-	-	-
Veh in Median Storage	2,# -	0	-	-	0	-	-	0	_	-	0	_
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	12	145	16	5	51	237	8	68	4	47	107	5
									•			
Major/Minor N	1inor2		ı	Minor1		ı	Major1		N	/lajor2		
Conflicting Flow All	434	292	110	370	292	70	112	0	0	72	0	0
Stage 1	204	204	-	86	86	-	112	-	-	12	-	-
Stage 2	230	88	_	284	206	_	_	_	_	_	_	_
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12			4.12	_	
Critical Hdwy Stg 1	6.12	5.52	0.22	6.12	5.52	0.22	7.12	_	_	7.12	_	_
Critical Hdwy Stg 2	6.12	5.52		6.12	5.52			_	_		_	
3 0	3.518		3.318			3.318	2 218	_	_	2.218	_	_
Pot Cap-1 Maneuver	532	619	943	587	619	993	1478			1528	_	
Stage 1	798	733	743	922	824	773	-	-		1020	-	
Stage 2	773	822		723	731	-	-	-	-	-	-	-
Platoon blocked, %	113	UZZ		123	731	•	_		-	_	-	_
Mov Cap-1 Maneuver	368	595	943	456	595	993	1478	-	-	1528	-	-
•	368	595		456	595	773	1470	-	-	1020	-	-
Mov Cap-2 Maneuver	793	709	-	916	819	-	-	-	-	-		-
Stage 1			-		707	-	-	_	-	-	-	
Stage 2	549	817	-	547	/0/	-	-	-	-	-	-	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s/	v 13.6			11.2			0.7			2.2		
HCM LOS	В			В								
Minor Lane/Major Mvm	nt	NBL	NBT	NBRI	EBLn1V	VBLn1	SBL	SBT	SBR			
Capacity (veh/h)		1478	-	-	590	872	1528	-	_			
HCM Lane V/C Ratio		0.005	-	_		0.337		-	-			
HCM Control Delay (s/	veh)	7.4	0	-	13.6	11.2	7.4	0	-			
HCM Lane LOS	,	A	A	_	В	В	A	A	-			
HCM 95th %tile Q (veh	1)	0	-	-	1.2	1.5	0.1	-	-			
2 (10)	,											

Intersection	
Intersection Delay, s/veh	8.9
Intersection LOS	А

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	53	199	7	3	24	110	2	14	12	30	44	3
Future Vol, veh/h	53	199	7	3	24	110	2	14	12	30	44	3
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	58	216	8	3	26	120	2	15	13	33	48	3
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0
Approach	EB			WB			NB			SB		
Opposing Approach	WB			EB			SB			NB		
Opposing Lanes	1			1			1			1		
Conflicting Approach Left	SB			NB			EB			WB		
Conflicting Lanes Left	1			1			1			1		
Conflicting Approach Right	NB			SB			WB			EB		
Conflicting Lanes Right	1			1			1			1		
HCM Control Delay, s/veh	9.7			7.9			8			8.6		
HCM LOS	Α			Α			Α			Α		

Lane	NBLn1	EBLn1	WBLn1	SBLn1	
Vol Left, %	7%	20%	2%	39%	
Vol Thru, %	50%	77%	18%	57%	
Vol Right, %	43%	3%	80%	4%	
Sign Control	Stop	Stop	Stop	Stop	
Traffic Vol by Lane	28	259	137	77	
LT Vol	2	53	3	30	
Through Vol	14	199	24	44	
RT Vol	12	7	110	3	
Lane Flow Rate	30	282	149	84	
Geometry Grp	1	1	1	1	
Degree of Util (X)	0.04	0.343	0.167	0.115	
Departure Headway (Hd)	4.741	4.39	4.042	4.962	
Convergence, Y/N	Yes	Yes	Yes	Yes	
Cap	754	819	888	722	
Service Time	2.777	2.411	2.065	2.994	
HCM Lane V/C Ratio	0.04	0.344	0.168	0.116	
HCM Control Delay, s/veh	8	9.7	7.9	8.6	
HCM Lane LOS	Α	Α	Α	Α	
HCM 95th-tile Q	0.1	1.5	0.6	0.4	

Intersection												
Int Delay, s/veh	10											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	53	199	7	3	24	110	2	14	12	30	44	3
Future Vol, veh/h	53	199	7	3	24	110	2	14	12	30	44	3
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage	e,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	58	216	8	3	26	120	2	15	13	33	48	3
Major/Minor N	linor2		ľ	Minor1		ľ	Major1		N	/lajor2		
Conflicting Flow All	215	148	50	254	143	22	51	0	0	28	0	0
Stage 1	116	116	-	26	26	-	-	-	-	-	-	-
Stage 2	99	32	-	228	117	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-
Pot Cap-1 Maneuver	742	743	1018	699	748	1055	1555	-	-	1585	-	-
Stage 1	889	800	-	992	874	-	-	-	-	-	-	-
Stage 2	907	868	-	775	799	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	629	727	1018	526	732	1055	1555	-	-	1585	-	-
Mov Cap-2 Maneuver	629	727	-	526	732	-	-	-	-	-	-	-
Stage 1	888	783	-	991	873	-	-	-	-	-	-	-
Stage 2	779	867	-	545	782	-	-	-	-	-	-	-
Ü												
Approach	EB			WB			NB			SB		
HCM Control Delay, s/	v13.4			9.4			0.5			2.9		
HCM LOS	В			Α								
Minor Lane/Major Mvm	nt	NBL	NBT	NBRI	EBLn1V	VBLn1	SBL	SBT	SBR			
Capacity (veh/h)		1555	-	_	710	960	1585	_	_			
HCM Lane V/C Ratio		0.001	-	_		0.155		-	-			
HCM Control Delay (s/	veh)	7.3	0	-	13.4	9.4	7.3	0	-			
HCM Lane LOS	,	A	A	-	В	A	A	A	_			
HCM 95th %tile Q (veh	1)	0	-	-	1.9	0.5	0.1	-	-			